

PATENT



ATTORNEY DOCKET NO. ACBI.028.01US

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Bjornson, *et al.*

Serial No.: 09/557,519

Filed: April 25, 2000

Title: **MULTIPLE ARRAY MICROFLUIDIC
DEVICE UNITS**

)
) Examiner: Not Yet Assigned
)
) Art Unit: Not Yet Assigned
)
) **INFORMATION DISCLOSURE**
) **STATEMENT TRANSMITTAL**
)
)

BOX DD

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith is:

- [X] An Information Disclosure Statement.
- [X] A PTO-1449.
- [X] International Search Report.
- [X] Return postcard (postage prepaid).

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on

Date

6-15-00

Signed

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1. ☒ This Information Disclosure Statement is filed before the later of:
 - ☒ three months from the filing date of this national application;
 - ☐ three months from the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or
 - ☐ the mailing date of a first office action on the merits.☒ In accordance with 37 C.F.R. § 1.97(b), no fee is required.

2. ☐ This Information Disclosure Statement is filed after the events noted in paragraph 2, but before either:
 - (1) a final action under 37 C.F.R. § 1.113; or
 - (2) a Notice of Allowance under 37 C.F.R. § 1.311.☐ In accordance with 37 C.F.R. § 1.97(c) also enclosed is:
 - ☐ a fee under 37 C.F.R. § 1.17(p) in the amount of \$240; or
 - ☐ a certification as stated below.

3. ☐ This Information Disclosure statement is filed before the payment of the issue fee, but after either:
 - (1) a final action under 37 C.F.R. § 1.113; or
 - (2) a Notice of Allowance under 37 C.F.R. § 1.311.☐ In accordance with 37 C.F.R. § 1.97(d) also enclosed is:
 - (1) A certification, as stated below;
 - (2) A Petition requesting consideration of the Information Disclosure Statement; and
 - (3) The petition fee set forth in 37 C.F.R. § 1.17(i)(1) in the amount of \$130.

Certification

The undersigned also states:

- ☐ Each item of information contained in the Information Disclosure Statement cited herein was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing date of this Information Disclosure Statement; or
- ☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of this Information Disclosure Statement.

The fees indicated above are:

TOTAL FEES: \$ 0

- ☐ A check including the amount of the above-indicated TOTAL FEES is attached.
- ☐ Please charge Deposit Account No. 18-0020 in the amount of: \$ _____.
- ☐ A check in the amount of \$ _____ is attached.
- ☒ No fee is required.
- ☒ The Commissioner is hereby authorized to charge any underpayment of the following fees associated with this communication, including any necessary fees for extension of time, or credit any overpayment to Deposit Account No. 18-0020.
 - ☒ Any filing fees under 37 C.F.R. § 1.16 for the presentation of extra claims.
 - ☒ Any patent application processing fees under 37 C.F.R. § 1.17.
 - ☒ A duplicate copy of this sheet is attached for accounting purposes.

Respectfully submitted,

Dated: June 8, 2000

Barbara Rae-Venter
Barbara Rae-Venter, Ph.D.
Reg. No. 32,750

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Palo Alto, CA 94306-0039
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BRV/slb

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is hereby submitted in accordance with 37 C.F.R. §1.98 and pursuant to Applicant's continuing duty under 37 C.F.R. §1.56 to bring any information which may be material to patentability of this application to the Examiner's attention.

References A1-34, B1-2, and C1-8 have been cited by the Examiner or the Applicants in priority Application No. 09/153,814 filed on 09/15/98. Each of these references have been cited by or submitted to the Office in a properly identified prior application, therefore under 37 C.F.R. §1.98(d) copies of these references are not required. Copies of references B3-4 and C9-10 will be submitted upon our receipt.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on

Date 6-15-00

Signed maria tomer

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Applicant makes no representation that a complete search has been conducted by the Applicant, or that there is not possibly more relevant art. Applicant also makes no representation that the information submitted herewith is in fact material.

- ☒ [X] Several of the enclosed publications were cited in a foreign examination report in a related case. A copy of the search report is attached.
- ☐ [] The search report is not in the English language and a translation of the search report is enclosed.
- ☐ [] Enclosed in an explanation of the relevance of non-English publications for which an English translation is not available.
- ☒ [X] The explanation is in the form of an English language search report.

The subject application is believed patentable over any of the above references.

Respectfully submitted,

Dated: June 8, 2000

Barbara Rae-Venter
Barbara Rae-Venter, Ph.D.
Reg. No. 32,750

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COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Sheet 1 of 4In re application of: Bjornson, *et al*

Art Unit: Not Yet Assigned

Serial No. 09/557,519

Examiner: Not Yet Assigned

Filed: April 25, 2000

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	Filing Date
A1	<i>[initials]</i>	4,658,269	04/97	Resanka	346/75	
A2	<i>[initials]</i>	4,948,564	08/90	Root et al.	422/102X	
A3	<i>[initials]</i>	4,799,068	01/17/89	Saito, et al.	346/1.1	
A4	<i>[initials]</i>	4,314,263	02/02/82	Carley	346/ 140 48	
A5	<i>[initials]</i>	4,383,265	05/10/83	Kobashi	346/ 140 55	
A6	<i>[initials]</i>	4,768,044	08/30/88	Shimosato	346/ 140 55	
A7	<i>[initials]</i>	5,560,811	10/01/96	Briggs et al.	204/451	
A8	<i>[initials]</i>	5,165,601	11/24/92	Rodenberger et al.	239/3	
A9	<i>[initials]</i>	5,599,695	02/04/97	Pease et al.	435/91.1	
A10	<i>[initials]</i>	5,608,433	03/04/97	Quate	347/37X	
A11	<i>[initials]</i>	4,952,266	08/28/90	Tsuruta, et al.	156/243	
A12	<i>[initials]</i>	4,965,049	10/23/90	Lillig, et al.,	422/68.1	
A13	<i>[initials]</i>	5,030,418	07/09/91	Miyata	422/63	
A14	<i>[initials]</i>	5,104,621	04/14/92	Pfost, et al.	422/67	
A15	<i>[initials]</i>	5,356,525	10/18/94	Goodale, et al.	204/ 299 602	

Examiner: **JOHNS. STARSIAK JR.**Date Considered: **25 MARCH 2003**

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PATENT

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COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

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Sheet 2 of 4

In re application of: Bjornson, *et al*

Art Unit: Not Yet Assigned

Serial No. 09/557,519

Examiner: Not Yet Assigned

Filed: April 25, 2000

A16	5,589,330	12/36/96	Shuber	435/5
A17	5,658,413	08/19/97	Kaltenbach, et al.	156/272.8
A18	5,324,401	06/28/94	Yeung, et al.	204/100-1 452
A19	5,332,480	07/26/94	Datta, et al.	204/100-1 451
A20	5,277,780	01/11/94	Kambara	204/299-1 603
A21	5,413,686	05/09/95	Klein, et al.	204/299-1 603
A22	5,439,578	08/08/95	Dovich, et al.	204/299-1 603
A23	5,338,427	08/16/94	Shartle, et al.	204/299-1 604
A24	5,091,652	02/25/92	Mathies, et al.	250/458.1
A25	4,675,300	06/23/87	Zare, et al.	436/172X
A26	5,356,525	10/18/94	Goodale, et al.	204/299-1 602
A27	5,043,215	08/27/91	Nakane, et al.	428/378
A28	4,927,604	05/22/90	Mathus, et al.	422/101
A29	5,108,704	04/28/92	Bowers, et al.	422/70
A30	5,219,528	06/15/93	Clark	422/101
A31	4,925,629	05/15/90	Schramm	422/82.05
A32	4,626,509	12/02/86	Lyman	435/283.1
A33	5,213,776	05/25/93	Maniero	422/303

Examiner: **JOHNS. STARSIAK JR.**Date Considered: **25 MAR 2003**

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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Sheet 3 of 4

In re application of: Bjornson, *et al*

Art Unit: Not Yet Assigned

Serial No. 09/557,519

Examiner: Not Yet Assigned

Filed: April 25, 2000

A34	<i>[initials]</i>	5,525,302	06/11/96	Astle	422/100
A35	<i>[initials]</i>	5,126,022	06/30/92	Soane, et al.	204/180.1 458
A36	<i>[initials]</i>	4,475,300	10/09/84	Ledenican	40/600
A37	<i>[initials]</i>	5,110,514	05/05/92	Soane	264/422 496

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Filing Date
B1	<i>[initials]</i>	9402381	08/10/94	PCT		
B2	<i>[initials]</i>	6046257	03/13/85	PCT		
B3	<i>[initials]</i>	WO 97/15394		PCT		
B4	<i>[initials]</i>	WO 99/24827		PCT		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	Document
C1	<i>[initials]</i>	Dong Hi Chai, et al., <u>Eighth International Congress on Advances in Non-Impact Printing Technologies</u> (1992), 334-9
C2	<i>[initials]</i>	Hayati, et al., <u>J. of Colloid and Interface Sci.</u> (1987), 117(1):205-21

Examiner: JOHN S. STARSIAK JR.Date Considered: 26 MAR. 2003

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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Sheet 4 of 4

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Serial No. 09/557,519

Filed: April 25, 2000

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Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

C3
C4
C5
C6
C7
C8
C9
C10

Hayati, et al., J. of Colloid and Interface Sci. (1987), 117(1):222-30

Joffre, et al., J. of Electrostatics (1986), 18:147-61

Kozhenkov, et al., Russian Chemical Reviews (1976), 45(12):1179-84

Meesters, J. Aerosol Sci. (1992), 23(1):37-9

Ross N. Mills, ESIJET Printing Technology, IS&T's NIP, 12:262-6

Saville, Annu. Rev. Fluid Mech. (1997), 29:27-64

Wooley and Mathies, Proc. Natl. Acad. Sci. USA (1994), 91:11348-52

Wooley, et al., Anal. Chem. (1997), 69:2181-6

Examiner: **JOHN S. STARSIAK JR**

Date Considered: **28 MARCH 2003**

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.